

AMENDMENT TO THE CLAIMS

1. (Currently Amended) An apparatus comprising:
a subsurface logging apparatus; and
a plurality of gravity sensors coupled to the subsurface logging apparatus, the sensors being spaced a known, different distance apart to form a gravity sensor array.
2. (Original) The apparatus of claim 1, the logging apparatus comprising a logging sonde, coil tubing, or wireline.
3. (Original) The apparatus of claim 1, where a sensor drift associated with one gravity sensor is time-correlated with a sensor drift of another gravity sensor.
4. (Original) The apparatus of claim 3, where sensor drifts of all the gravity sensors are time-correlated with one another.
5. (Original) The apparatus of claim 1, further comprising sensor hardware or software configured to correct sensor drift of one or more of the gravity sensors.
6. (Withdrawn) The apparatus of claim 1, where different gravity sensors are spaced at different distances from one another.
7. (Original) The apparatus of claim 1, where the array is a linear, vertical array.
8. (Currently Amended) A method of logging using multiple gravity sensors, comprising:
spacing gravity sensors a known, different distance apart to form a gravity sensor array;
placing the gravity sensor array into a subsurface; and
using the gravity sensor array to make gravity measurements of the subsurface.
9. (Original) The method of claim 8, where the gravity sensors make gravity measurements simultaneously.